

IN THE CLAIMS

Claims 1 - 83 (cancelled)

Claim 84 (currently amended): A method for flexible and secure transmission of digital content to ~~an end user device~~ a first end user device and a second end user device, the method comprising:

providing a control center for controlling access to the digital content by the first end user device and the second end user device;

transmitting scrambled digital content to ~~[[a]] the second~~ first end user device by ~~[[a]] the first~~ second end user device, such that said second end user device cannot play back said scrambled digital content;

connecting said second end user device to said control center; and

transmitting a permission message to said second end user device by said control center, such that said second end user device is able to unscramble said scrambled digital content to form unscrambled digital content,

wherein the transmitted scrambled digital content comprises at least an embedded original entitlement control message (ECM) and playable content, the embedded original ECM controlling, at least in part, access to the scrambled digital content by the second end user device.

Claim 85 (previously presented): The method of claim 84, wherein transmitting said scrambled digital content includes:

transmitting a first set of information for decoding said scrambled digital content to said second end user device; and

permitting said second end user device to access said first set of information only if said permission message is given to said second end user device.

Claim 86 (previously presented): The method of claim 85, wherein said first set of information is distributed with said scrambled digital content.

Claim 87 (previously presented): The method of claim 85, wherein said first set of information is distributed by said control center.

Claim 88 (previously presented): The method of claim 85, wherein transmitting said scrambled digital content includes contacting said control center by said second end user device to receive said permission message.

Claim 89 (previously presented): The method of claim 85, wherein said first set of information includes an address of said control center.

Claim 90 (previously presented): The method of claim 85, wherein said first set of information enables said unscrambled digital content to be permanently stored by said second end user device.

Claim 91 (cancelled)

Claim 92 (previously presented): The method of claim 84, wherein said first and said second end user devices belong to a group of a plurality of end user devices, such that said permission message is sent to each end user device belonging to said group.

Claim 93 (previously presented): The method of claim 92, wherein membership in said group is at least partially determined according to communication between said end user devices.

Claim 94 (previously presented): The method of claim 93, wherein transmitting said permission message further comprises transmitting a token from said first end user device to said second end user device, for including said first and said second end user devices in said group.

Claim 95 (previously presented): The method of claim 94, wherein transmitting said token is performed repeatedly for the plurality of end user devices in the group until a limit is reached.

Claim 96 (previously presented): The method of claim 95, wherein said limit is determined according to a number of end user devices in the group, such that if said number of end user devices exceeds a maximum permitted number, transmitting said scrambled digital content and transmitting said permission message are not performed for an additional end user device.

Claim 97 (previously presented): The method of claim 96, wherein said limit is determined according to at least one reasonableness rule.

Claim 98 (previously presented): The method of claim 95, wherein said limit is determined according to at least one reasonableness rule and wherein said at least one reasonableness rule restricts a number of copies of said scrambled digital content operable with said token.

Claim 99 (previously presented): The method of claim 98, wherein when said limit is reached, at least one of transmitting said scrambled digital content and transmitting said permission message is not performed.

Claim 100 (previously presented): The method of claim 98, wherein said at least one reasonableness rule requires at least said first end user device to wait for a predetermined period before transferring said scrambled digital content to an additional end user device in the group.

Claim 101 (previously presented): The method of claim 98, wherein said at least one reasonableness rule requires said second end user device to wait for a predetermined period before transferring said scrambled digital content to an additional end user device

in the group, said predetermined period being greater for said second end user device than for said first end user device.

Claim 102 (currently amended): The method of claim ~~[[98]]~~ 101, wherein said predetermined period is at least partially determined according to a period of time.

Claim 103 (currently amended): The method of claim ~~[[98]]~~ 101, wherein said predetermined period is at least partially determined according to operation of said end user device a minimum number of times.

Claim 104 (previously presented): The method of claim 92, wherein membership in said group is at least partially determined according to said control center, such that if said group has more than a predetermined number of end user devices as members, said control center blocks receipt of said permission message by members of said group.

Claim 105 (currently amended): A method for securing digital content for transmission to an end user device, comprising:

providing a control center for controlling access to the digital content by the end user device;

transmitting scrambled digital content to the end user device, the scrambled digital content comprising at least an embedded original entitlement control message (ECM) and playable content, the embedded original ECM controlling, at least in part, access to the scrambled digital content, such that the end user device cannot play back said scrambled digital content;

transmitting a PECM (personal ECM) to the end user device by said control center, said PECM being specific to the end user device; and

unscrambling said scrambled digital content by the end user device according to said PECM.

Claim 106 (previously presented): The method of claim 105, wherein transmitting said PECM further comprises:

transmitting a first set of information in an ECM (entitlement control message) for decoding said scrambled digital content to the end user device;

permitting the end user device to access said first set of information only if an entitlement management message (EMM) is given to the end user device and said EMM indicates that the end user device is permitted to use said ECM; and

unscrambling said scrambled digital content by the end user device according to said first set of information.

Claim 107 (previously presented): The method of claim 106, wherein said EMM is transmitted by said control center.

Claim 108 (previously presented): The method of claim 106, further comprising:

replacing said ECM with said PECM for unscrambling said scrambled digital content by the end user device.

Claim 109 (previously presented): The method of claim 106, wherein said first set of information includes at least one instruction for generating a code word, such that permitting the end user device to access said first set of information includes:

generating said code word according to said at least one instruction; and
unscrambling said scrambled digital content according to said code word.

Claim 110 (previously presented): The method of claim 105, further comprising:

permanently associating said PECM with said scrambled digital content to permit unscrambling of said scrambled digital content by the end user device.

Claim 111 (previously presented): The method of claim 110, further comprising:

transmitting said scrambled digital content with said ECM from a first end user device to a second end user device;

receiving a specific PECM by said second end user device from said control center; and

unscrambling said scrambled digital content by said second end user device only after receiving said specific PECM.

Claim 112 (previously presented): The method of claim 111, wherein receiving said specific PECM by said second end user device includes:

transmitting payment to said control center; and
transmitting said PECM by said control center only after receiving payment.

Claim 113 (previously presented): A system for securing digital content for transmission, comprising:

- (a) an end user device for receiving scrambled digital content and for unscrambling said scrambled digital content for playing back the digital content;
- (b) a broadcast unit for transmitting said scrambled digital content to said end user device;
- (c) a permission message generator for generating a permission message for transmission to said end user device, such that said end user device unscrambles said scrambled digital content only after said permission message is at least received by said end user device, said permission message being specific for said end user device; and
- (d) a subscription management system for controlling said permission message generator to determine whether said permission message is generated.

Claim 114 (previously presented): The system of claim 113, further comprising:

- (e) a network for connecting said end user device, said broadcast unit, said permission message generator and said subscription management system.

Claim 115 (previously presented): The system of claim 113, wherein said permission message generator sends said permission message to said subscription management system, and said subscription management system transmits said permission message to said end user device.

Claim 116 (previously presented): The system of claim 113, wherein said permission message generator further comprises:

- (i) an ECM (entitlement control message) generator for generating an ECM, said ECM forming a portion of said permission message; and
- (ii) a PECM (personalized ECM) generator for generating a PECM, said PECM being specific to said end user device, said PECM forming another portion of said permission message.

Claim 117 (previously presented): The system of claim 116, wherein said end user device further comprises a security module for receiving said ECM and said PECM, and for unscrambling said scrambled digital content for playing back the digital content upon receipt of at least one of said ECM and said PECM.

Claim 118 (previously presented): The system of claim 117, wherein said security module further comprises a renewable security submodule, said renewable security submodule being removable and replaceable.

Claim 119 (previously presented): The system of claim 118, wherein said renewable security submodule comprises a smartcard.

Claim 120 (previously presented): The system of claim 117, wherein said security module features a limited number of slots for being associated with a plurality of ECMs, such that if said limited number of slots are used, a PECM corresponding to at least one stored ECM must be received before an additional ECM is received by said end user device.

Claim 121 (previously presented): The system of claim 120, wherein information concerning said slots is stored on said security module.

Claim 122 (currently amended): The system of claim 119, further comprising a smartcard reader for reading said smartcard, said smartcard reader being separate from

said end user device, such that data produced by said smartcard is readable by said smartcard reader, including data resulting from said slots, said slots being comprised in the smartcard and associated with a plurality of ECMs, said data being readable as a coded reply.

Claim 123 (cancelled)

Claim 124 (currently amended): A method for secure distribution of digital content between end user devices, comprising:

receiving scrambled digital content by a first end user device, the scrambled digital content comprising at least an entitlement control message (ECM) and playable content;

receiving a permission message for unscrambling said scrambled digital content by said first end user device, the permission message comprising an entitlement to unscramble the scrambled digital content according to the ECM;

transferring said scrambled digital content and the ECM directly from said first end user device to a second end user device; and

unscrambling said scrambled digital content by said second end user device according to the ECM only after said permission message is activated for said second end user device.

Claim 125 (previously presented): The method of claim 124, wherein at least said second end user device is in communication with a control center and said permission message is activated for said second end user device by said control center.

Claim 126 (previously presented): The method of claim 124, wherein said first and said second end user devices belong to a group of a plurality of end user devices, such that said permission message is sent to each end user device belonging to said group.

Claim 127 (previously presented): The method of claim 126, wherein membership in said group is at least partially determined according to communication between said end user devices.

Claim 128 (previously presented): The method of claim 127, wherein receiving said permission message further comprises transmitting a token from said first end user device to said second end user device, for including said first and said second end user devices in said group.

Claim 129 (previously presented): The method of claim 128, wherein transmitting said token is performed repeatedly for the plurality of end user devices in the group until a limit is reached.

Claim 130 (previously presented): The method of claim 129, wherein said limit is determined according to a number of end user devices in the group, such that if said number of end user devices exceeds a maximum permitted number, receiving and transferring are not performed for an additional end user device.

Claim 131 (previously presented): The method of claim 130, wherein said limit is determined according to at least one reasonableness rule.

Claim 132 (previously presented): The method of claim 129, wherein said limit is determined according to at least one reasonableness rule and wherein said at least one reasonableness rule restricts a number of copies of said scrambled digital content operable with said PECM.

Claim 133 (previously presented): The method of claim 132, wherein when said limit is reached, at least one of receiving and transferring is not performed.

Claim 134 (previously presented): The method of claim 132, wherein said at least one reasonableness rule requires at least said first end user device to wait for a predetermined

period before transferring said scrambled digital content to an additional end user device in the group.

Claim 135 (previously presented): The method of claim 132, wherein said at least one reasonableness rule requires said second end user device to wait for a predetermined period before transferring said scrambled digital content to an additional end user device in the group, said predetermined period being greater for said second end user device than for said first end user device.

Claim 136 (currently amended): The method of claim ~~132~~135, wherein said predetermined period is at least partially determined according to a period of time.

Claim 137 (currently amended): The method of claim ~~132~~135, wherein said predetermined period is at least partially determined according to operation of said end user device a minimum number of times.

Claim 138 (currently amended): The method of claim 125, wherein membership in ~~said~~ a group of a plurality of end user devices is at least partially determined according to said control center, such that if said group has more than a predetermined number of end user devices as members, said control center blocks receipt of said permission message by members of said group.

Claim 139 (previously presented): The method of claim 124, wherein unscrambling comprises:

purchasing the digital content; and
activating said permission message for said second end user device.

Claim 140 (previously presented): The method of claim 124, wherein said permission message is operative only by said first end user device, such that if said permission message is transferred to said second end user device by said first end user device, said permission message cannot be used by said second end user device.

Claims 141 - 154 (cancelled)

Claim 155 (previously presented): A method for securing digital content for transmission to a plurality of end user devices, said plurality of end user devices being members of a group, the method comprising:

- transmitting scrambled digital content to a first end user device, such that said first end user device cannot play back said scrambled digital content;

- transmitting a PECM (personal ECM) to said first end user device, said PECM being specific to the group of end user devices;

- transmitting said scrambled digital content from said first end user device to a second end user device, such that said second end user device cannot play back said scrambled digital content;

- transmitting said PECM (personal ECM) to said second end user device;

and

- unscrambling said scrambled digital content by said first and said second end user devices according to said PECM.

Claim 156 (previously presented): The method of claim 155, wherein a control center controls access to the digital content by the group of end user devices, and wherein said PECM is sent at least to said first end user device by said control center.

Claim 157 (previously presented): The method of claim 155, wherein said PECM is sent from said first end user device to said second end user device.

Claim 158 (previously presented): The method of claim 155, wherein transmitting said scrambled digital content and transmitting said PECM are performed repeatedly for the plurality of end user devices in the group until a limit is reached.

Claim 159 (previously presented): The method of claim 158, wherein said limit is determined according to a number of end user devices in the group, such that if said

number of end user devices exceeds a maximum permitted number, transmitting said scrambled digital content and transmitting said PECM are not performed for an additional end user device.

Claim 160 (previously presented): The method of claim 159, wherein said limit is determined according to at least one reasonableness rule.

Claim 161 (previously presented): The method of claim 158, wherein said limit is determined according to at least one reasonableness rule and wherein said at least one reasonableness rule restricts a number of copies of said scrambled digital content operable with said PECM.

Claim 162 (previously presented): The method of claim 161, wherein when said limit is reached, at least one of transmitting said scrambled digital content and transmitting said PECM is not performed.

Claim 163 (previously presented): The method of claim 162, wherein said at least one reasonableness rule requires at least said first end user device to wait for a predetermined period before transferring said scrambled digital content to an additional end user device in the group.

Claim 164 (previously presented): The method of claim 163, wherein said period is at least partially determined according to a period of time.

Claim 165 (previously presented): The method of claim 163, wherein said period is at least partially determined according to operation of said end user device a minimum number of times.

Claim 166 (new) The method according to claim 84 and wherein the ECM remains embedded in the digital content after the receipt of a personal ECM (PECM) at the second end user device.

Claim 167 (new) The method according claim 84 and wherein the ECM comprises an address for a network control center, the network control center being the network control center the second end user device must contact in order to receive a permission message to unscramble the scrambled digital content.

Claim 168 (new) The method according to claim 167 and wherein the permission message comprises a PECM (personalized ECM).

Claim 169 (new) The method according claim 84 and wherein the ECM comprises at least:

- an indication that the scrambled digital content comprises purchasable content;
- a unique identifier for the scrambled digital content; and
- a conditional access service identifier for a group which is allowed to purchase the scrambled digital content.

Claim 170 (new) The method according to claim 169 and wherein the ECM further comprises at least one of:

- a base price for the scrambled digital content;
- an indication of rental duration for the digital content;
- a price for extending rental duration;
- an indication of a number of renderings of the digital content; and
- a price for outright ownership of the digital content.

Claim 171 (new) The method according to claim 105 and wherein the ECM remains embedded in the digital content after the receipt of the PECM at the second end user device.

Claim 172 (new) The method according claim 105 and wherein the ECM comprises an address for a network control center, the network control center being the network control

center the second end user device must contact in order to receive a permission message to unscramble the scrambled digital content.

Claim 173 (new) The method according to claim 172 and wherein the permission message comprises a PECM (personalized ECM).

Claim 174 (new) The method according claim 105 and wherein the ECM comprises at least:

- an indication that the scrambled digital content comprises purchasable content;
- a unique identifier for the scrambled digital content; and
- a conditional access service identifier for a group which is allowed to purchase the scrambled digital content.

Claim 175 (new) The method according to claim 174 and wherein the ECM further comprises at least one of:

- a base price for the scrambled digital content;
- an indication of rental duration for the digital content;
- a price for extending rental duration;
- an indication of a number of renderings of the digital content; and
- a price for outright ownership of the digital content.

Claim 176 (new) The method according to claim 124 and wherein the ECM remains embedded in the digital content after the receipt of a personal ECM (PECM) at the second end user device.

Claim 177 (new) The method according claim 124 and wherein the ECM comprises an address for a network control center, the network control center being the network control center the second end user device must contact in order to receive a permission message to unscramble the scrambled digital content.

Claim 178 (new) The method according to claim 177 and wherein the permission message comprises a PECM (personalized ECM).

Claim 179 (new) The method according claim 124 and wherein the ECM comprises at least:

- an indication that the scrambled digital content comprises purchasable content;
- a unique identifier for the scrambled digital content; and
- a conditional access service identifier for a group which is allowed to purchase the scrambled digital content.

Claim 180 (new) The method according to claim 179 and wherein the ECM further comprises at least one of:

- a base price for the scrambled digital content;
- an indication of rental duration for the digital content;
- a price for extending rental duration;
- an indication of a number of renderings of the digital content; and
- a price for outright ownership of the digital content.

Claim 181 (new): A method for securing digital content for transmission to a plurality of end user devices, said plurality of end user devices being members of a group, the method comprising:

- transmitting scrambled digital content to a first end user device, such that said first end user device cannot play back said scrambled digital content, the scrambled digital content comprising an entitlement control message (ECM) and playable content;
- transmitting a PECM (personal ECM) to said first end user device, said PECM being specific to the group of end user devices;
- transmitting said scrambled digital content from said first end user device to a second end user device, such that said second end user device cannot play back said scrambled digital content;

transmitting said PECM (personal ECM) to said second end user device;
and

unscrambling said scrambled digital content by said first and said second end user devices according to said PECM.

Claim 182 (new) The method according to claim 181 and wherein the ECM remains embedded in the digital content after the receipt of a personal ECM (PECM) at the second end user device.

Claim 183 (new) The method according claim 181 and wherein the ECM comprises an address for a network control center, the network control center being the network control center the second end user device must contact in order to receive a permission message to unscramble the scrambled digital content.

Claim 184 (new) The method according to claim 183 and wherein the permission message comprises a PECM (personalized ECM).

Claim 185 (new) The method according claim 181 and wherein the ECM comprises at least:

- an indication that the scrambled digital content comprises purchasable content;
- a unique identifier for the scrambled digital content; and
- a conditional access service identifier for a group which is allowed to purchase the scrambled digital content.

Claim 186 (new) The method according to claim 185 and wherein the ECM further comprises at least one of:

- a base price for the scrambled digital content;
- an indication of rental duration for the digital content;
- a price for extending rental duration;
- an indication of a number of renderings of the digital content; and

a price for outright ownership of the digital content.